

# Draft Repository SEIS

## Supplements the Yucca Mountain FEIS

- Analyzes the repository design
  - Up to eight waste handling buildings
  - Phased construction
  - Increased detail on the infrastructure required for construction and operations
  - Primarily canistered approach
- Updates, as appropriate, analytical tools
  - Total System Model replaced CALVIN for determining the number of shipments
  - WebTRAGIS was updated for determining representative routes
  - CAP-88 replaced GENII for determining radiological impacts to workers and the public from atmospheric releases during normal operations
  - AERMOD replaced ISC-3 for estimating nonradiological air-quality impacts
  - TSPA-SEIS replaced the TSPA-FEIS for estimating radiological dose from postclosure performance
- Provides new analyses as a result of scoping input
  - A new analysis with a higher percentage of the workforce residing in Nye County
  - A lower percentage of TAD utilization than DOE's initial scoping basis

## Preferred Alternative

To proceed with the Proposed Action to construct, operate and monitor and eventually close a geologic repository (unchanged from FEIS)

- Includes a mostly rail mode of transportation
- Construction and operation of the proposed railroad along a Caliente rail alignment
- Shared-use option for operation of the railroad in Nevada

## No Action Alternative

- Would not construct repository at Yucca Mountain
- Undertake site reclamation
- Commercial utilities and DOE would continue to manage spent nuclear fuel and high-level radioactive waste at sites throughout the United States